

# Control Loop and Control Loop Component LCM in TOSCA

-

Ericsson

# Background Rel G – Presentation at LF Virtual Developer Event



- Needs
  - Shared knowledge across ONAP components
    - Common Design Time Catalogue
    - Single RT Catalogue
  - General mechanism to add/extend ONAP functionalities (e.g. analytic/AI/ML components, support different controllers)

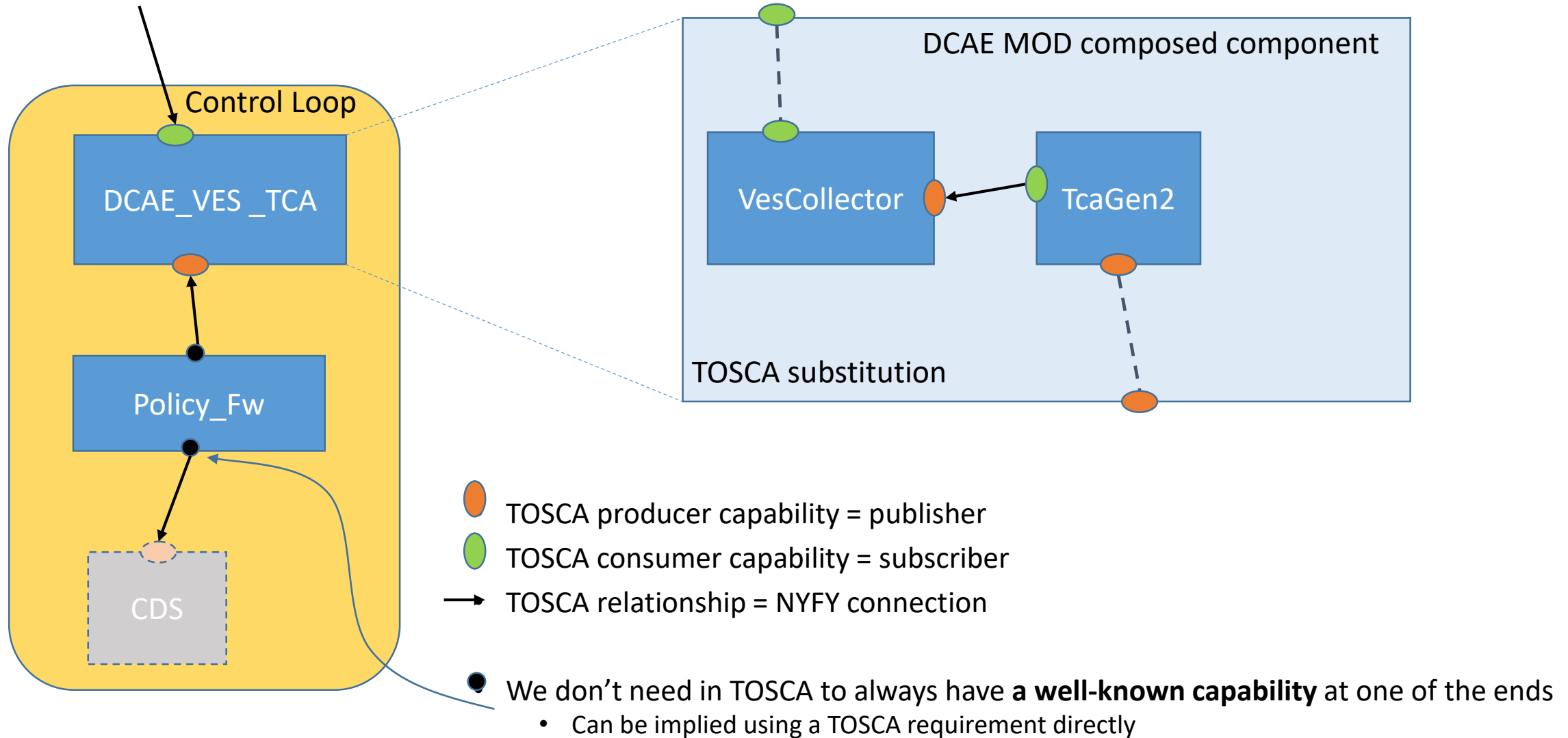
# Rel H Target

- Continue Control Loop PoC in Rel H to investigate further:
  - Integration with SDC and DCAE-MOD
  - Deployment/Instantiation of CL with **any** CL components/APP
    - CL component as DCAE ms instances (covered by current CLs)
    - CL component as metadata in existing ONAP component instances (e.g. CDS blueprint)
    - CL component as external component to ONAP
  - CL Designer
  - CL Monitoring

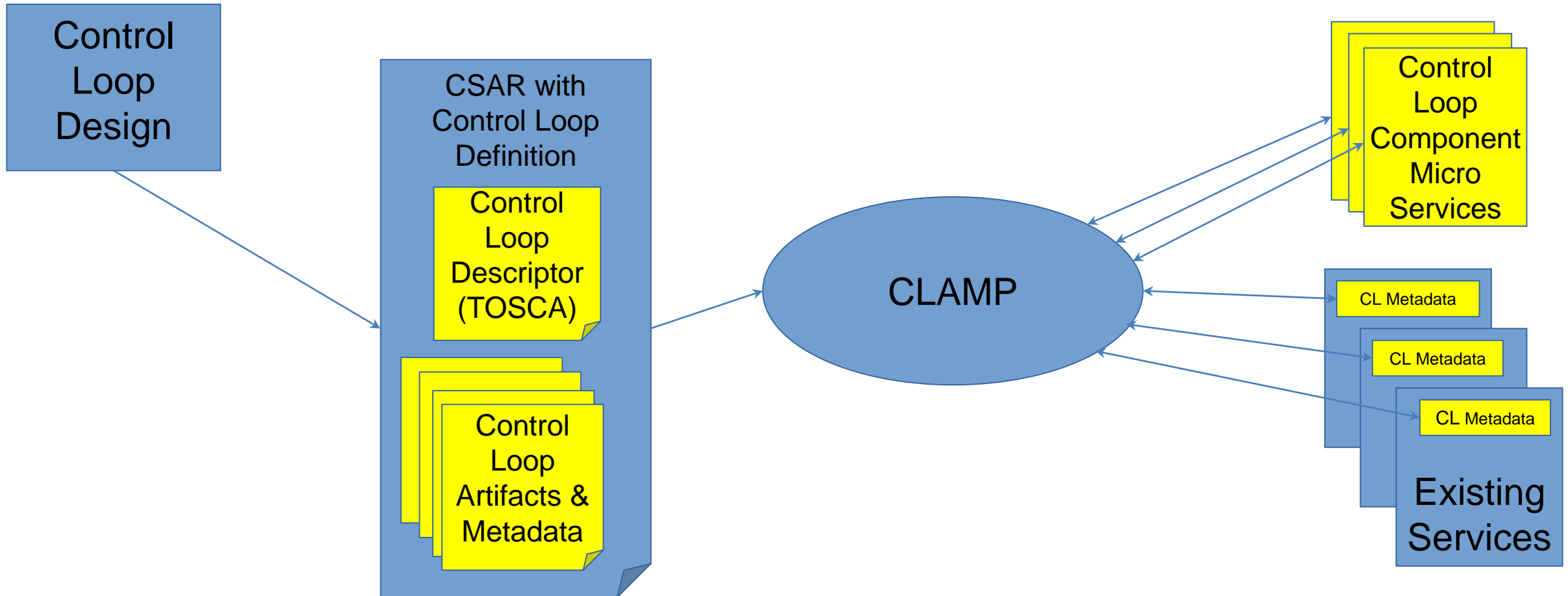
# REQ and JIRA

<a href="#">REQ-402</a>		PoC - TOSCA Defined Control Loop	Michela Bevilacqua	Open
<b>Honolulu</b>				
<a href="#">CLAMP-963</a>		<a href="#">TOSCA Defined Control Loop Architecture &amp; Design Wiki Entry</a>	Joseph O'Leary	Open
<a href="#">CLAMP-893</a>		<a href="#">Integrate CLAMP and Control Loop Manager</a>	Liam Fallon	Reopened
<a href="#">CLAMP-981</a>		<a href="#">TOSCA Control Loop Design Time</a>	Liam Fallon	Open
	<a href="#">CLAMP-892</a>	<a href="#">Build interaction between DCAE-MOD and Design Time Catalogue</a>	Joseph O'Leary	Open
	<a href="#">CLAMP-891</a>	<a href="#">Build interaction between SDC and Design Time Catalogue</a>	Liam Fallon	Open
<a href="#">CLAMP-982</a>		<a href="#">TOSCA Control Loop Runtime</a>	Unassigned	Open
	<a href="#">CLAMP-1001</a>	<a href="#">TOSCA CL Deploy API</a>	Robertas Rimkus	In Progress
	<a href="#">CLAMP-1005</a>	<a href="#">TOSCA CL Instantiation API</a>	Bogdan Pilch	In Progress
	<a href="#">CLAMP-1008</a>	<a href="#">TOSCA CL Monitoring</a>	Ajay Deep Singh	Open
	<a href="#">CLAMP-1009</a>	<a href="#">TOSCA CL Supervision</a>	Joseph O'Leary	Open
	<a href="#">CLAMP-1000</a>	<a href="#">Define Configuration Format</a>	Unassigned	Open
<a href="#">CLAMP-983</a>		<a href="#">TOSCA Control Loop Participants</a>	Sirisha Manchikanti	Open
	<a href="#">CLAMP-989</a>	<a href="#">Manager/Participant Event Formats</a>	Sirisha Manchikanti	Open
<a href="#">CLAMP-984</a>		<a href="#">TOSCA Control Loop MVP Demo</a>	Unassigned	Open
<a href="#">CLAMP-929</a>		<a href="#">Infrastructure &amp; Integration Actives</a>	Unassigned	Reopened
<b>Guilin</b>				
<a href="#">CLAMP-890</a>		<a href="#">Create REST interface towards Design Time Catalogue</a>	Liam Fallon	Closed
<a href="#">CLAMP-889</a>		<a href="#">Create Design Time Catalogue for control loops</a>	Liam Fallon	Closed
<a href="#">CLAMP-888</a>		<a href="#">Create a TOSCA definition for a Control Loop (and its components)</a>	Fei Zhang	Closed

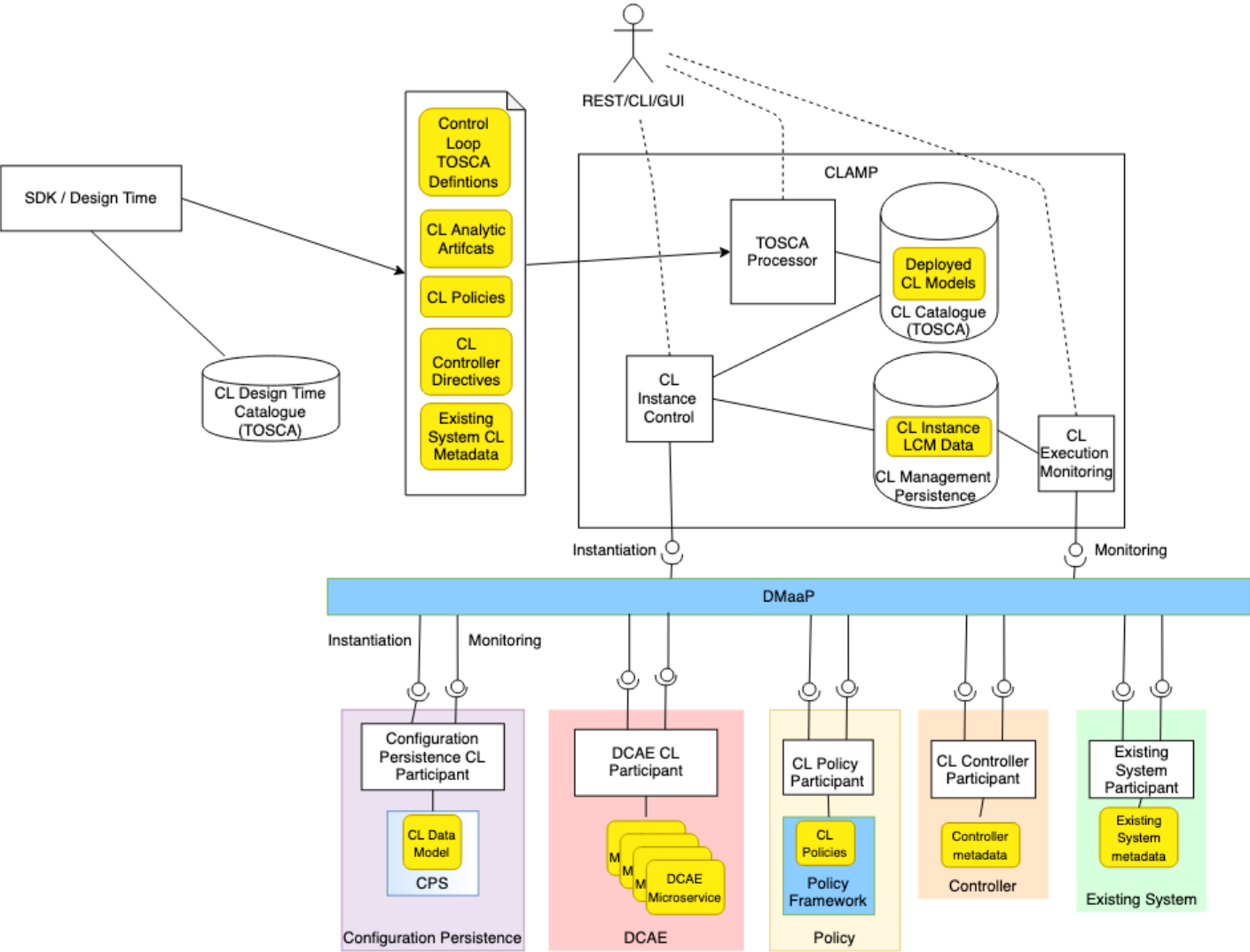
# TOSCA for Control Loop



# Deployment of Control Loops in Long Term



# Detailed Architecture (From Wiki)



The architecture is detailed [on the ONAP Wiki here](#).

# Next steps

- Continue overall architecture solution and integration with other ONAP components
  - Common Design Time
- Target: Introduce Control Loop in TOSCA in ONAP mainstream in next Rel
  - A generalized feature for ONAP platform
- Challenges:
  - CLAMP/Policy project merge
  - Reuse CLAMP and Policy code
  - Support from CLAMP/Policy team